

PSI Medical Automated Respiratory Equipment

A7. VENTILATOR

Product Description

Intensive care A7-Ventilator offers the highest ventilator performance and revolutionary operation designed for every ventilation therapy, whether invasive, non-invasive, mask or tube, the unique A7 has been developed and designed by experts in the respiratory field.

A ventilation system for daily use in safety sensitive respiratory situations, the A7 incorporates life sustaining technology, high performance, reliable and easy to use breathing apparatus with the ability to emit small and precise volumes for our most sensitive patients.

The aim of mechanical ventilation is to give maximum comfort for the patient. With the unique diaphragm generated pulse and software for automatic synchronisation, the A7 reduces the need for care for users and accelerates the weaning of the patient from the respirator.

Features of the A7-Ventilator

- Unique diaphragm and pump chamber design giving a fully controlled natural like breath
- Fully automated control of the patient's ventilation and oxygenation
- Real-time patient respiratory synchronization
- Ability to recognise changes in lung compliance and resistance as well as the patient's spontaneous activity
- Invasive ventilation & non-invasive ventilation capability
- Remote control capability
- Oxygen blender for the ultimate concentration accuracy
- International standard touch screen controls

For Sensitive Patients

The A7 includes volume, pressure and flow control with excellent user friendliness and precision operation. Reliability and safety are crucial in ventilation. The A7 provides high precision volume and pressure control manufactured with the latest technology issuing precise dosage of airflow for even the youngest patients.

Adaptive, lung-protective ventilation

The A7-Ventilator is adaptive supporting the earliest possible spontaneous breathing by the patient. Following the current recommendations for lung-protective ventilation in terms of tidal volumes and driving pressure with over pressure and patient disconnect alarms.

Customise

You can configure the A7-Ventilator in several different ways to customize the device for your environment. Development of the A7 has been completed in close cooperation with users and ventilation experts, our engineers have designed a user friendly interface on the A7-Ventilator to help you to individualize your patient's ventilation and to implement a lung-protective ventilation strategy.

Modes

- Manual – Allows patient breath with titrated oxygen at pre-set percentage
- CV – Controlled ventilation at pre-set respiratory rate, volume, pressure, and flow
- VS – Volume support monitors patient respiratory rate, delivering a breath if required
- ACV – Assist control will sense a patient's breath and deliver a set volume at a set flow rate

Alarms

- Oxygen set point not achieved alarm
- Low pressure alarm adjustable 50 – 180 cm H₂O
- High pressure alarm adjustable 200 – 400 cm H₂O
- Patient breaths adjustable monitor 2 – 10 per minute
- Supply air failure alarm
- Back up battery with power failure alarm

Specifications

- PEEP range adjustable from 5 to 25 cm H₂O
- Oxygen FiO₂ concentration adjustable in 1% increments from 21 – 100%
- Tidal volume from 200mL to 800mL
- Respiratory rate from 5 to 35 breaths per minute
- Inspiratory hold time from 0 to 2 seconds
- Inspiratory flow from 10 to 100 litres per minute
- Adjustable patient trigger from 0 – 10 cm H₂O
- Height: 830mm, Width: 360mm, Length: 360mm, Weight: 30kg

Patent Pending

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